

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Gerald Temple Septic Tank Service
Gerald Temple
1636 Temple Road
Bunnlevel, NC 28323

is hereby issued a permit to operate Septage Land Application Site with permit #SLAS-43-03 located on SR#2067 in Harnett County in approximate position 35.31837° N latitude and -78.86139° W longitude. The site is to be operated in accordance with 15A NCAC 13B .0800 Septage Management, the information stated in the approved application, and the conditions of this permit. The unauthorized disposal of any liquid or solid wastes other than those specified in the conditions of this permit will be considered a violation of the conditions of this permit. Failure to comply with the conditions of this permit may result in permit suspension, permit revocation, action for injunctive relief, administrative penalties, or other remedies as provided in G.S. 130A, Article 1., Part 2.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in affect at the time of review.

Date Issued 4/18/2012

Martin A. Gallagher
Martin A. Gallagher, Branch Head
Solid Waste Section

Operator: Gerald Temple
SLAS# 43-03
County: Harnett

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Permit Conditions:

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Gerald Temple and approved by the Division of Waste Management. **The 6.7 acre site shall be divided into field 1 (3.1 acres) and field 2 (3.6 acres).** The 30 day waiting period between the last application of septage and the harvest of the crop shall be met by rotating application periods between fields. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Gerald Temple in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other local, state and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the requirements of 40 CFR 503.
5. This permit may be modified or reissued to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.
7. **This site contains approximately 6.7 acres that are available for septage land application.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total maximum annual application rate of 335,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 6,442 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner as to have no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.

Operator: Gerald Temple
SLAS #: 43-03
County: Harnett

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10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become void unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the permittee shall discharge septage at this site without prior appropriate notification and written approval of the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on April 18, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. **An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date.** A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and 40 CFR Part 503.17(b) of the Federal Register.
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas which can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

April 18, 2012

Mr. Gerald Temple
Gerald Temple Septic Tank Service
1636 Temple Road
Bunnlevel, NC 28323

**RE: SLAS permit renewal
Gerald Temple Septic Tank Service
SLAS-43-03
SR#2067 in Harnett County**

Dear Mr. Temple:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Harnett County. Your application has been approved and your permit, # SLAS-43-03, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until April 18, 2017. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist
Composting & Land Application Branch

APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605

I. Site and Operator Information

1. Applicant Derald Temple
Address 1636 Temple Rd
Bunnlevel NC 28323
Phone 910-893-4953-H 910-814-7312-C

2. Contact person for site operation (if different from applicant): Same
Title or position _____ Phone _____
Address _____

3. Landowner Same
Address _____

4. Site Location: County Harnett State Road Number 2067 Temple Rd
Directions to site: _____

5. Indicate whether request is: new _____ renewal ☒ modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: 43-03 permit expiration date: 3-15-12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 6
acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). *If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.*

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): S D T F 43-03 H.C. Sewer plant
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks ☒
 - (b) Grease trap pumpings _____
 - (c) Portable toilet waste _____
 - (d) Commercial / Industrial septage _____
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Hyd lime to PH 12 for 30 min
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): from truck using spreader plate as truck is driven across field
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): Site is Agricultural Land

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Gerald Temple
Signature***

2-15-12
Date

GERALD TEMPLE

Print name

Owner

Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0821(e) of the N.C. Septage Management Rules.

** Refer to Section .0821(g) of the N.C. Septage Management Rules.

***Signature of company official required.

Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, Gerald & Patricia Temple (name of site owner) hereby certify that I am the owner of

7 acres of land located Harnett Co

and identified by 0033480 (book and page of recorded deed or

tax map parcel) and that I agree to allow Gerald Temple (name of site operator)

to use said land for septage land application for a period of 10 years (length of time),

beginning 2-1-12 (month, day and year) and that I have read the North

Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on land

use after septage land application ends **. I further understand that no septage may be land applied until

the Division of Waste Management has issued a permit for a septage land application site. The above

described property is owned solely by me or jointly with Gerald & Patricia Temple

(names of all co-owners, or state none).

Signature of landowner Gerald Rg Temple Date 2-20-12

Signature of landowner Patricia S. Temple Date 2-20-12

Sworn to and subscribed before me this 20th day of February, 20 12

Doris J. Finger
(Notary Public)

My Commission expires: 6/28/2013

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0826



Septage Nutrient Management Plan

Gerald Temple Septic Tank Service

1636 Temple Road

Bunnlevel, NC 28323

(910) 893-4953

NCS#00387

Permit #4303

A. General Information:

1. Each field will have its soil sampled and analyzed at least once yearly.
2. Field #1 contains approximately ~~three~~^{3.1} acres and field#2 contains approximately ~~three~~^{3.6} acres.
3. The dominant soil series on these fields is Blaney.
4. Septage will not be applied when the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than three inches in depth).
5. A 5,000 gallon storage tank is available near the septage application site. This tank will be used if septage needs to be off-loaded during inclement weather and during times when the fields are being harvested.

B. Crops to be grown and approximate planting times:

Fields#1 and 2 consist of 70% coastal Bermuda, repairs will be made in spring or summer with 10lbs per acre, 20% fescue, and 10% crabgrass. Both fields, #1 and #2, will be overseeded with winter annual grass (rye grass, oats, wheat, or barley) every fall. Appropriate seeding dates for the winter annual grass is between September 15th and October 31st. (90 lbs for oats, 120 lbs for wheat) The fescue stand may slowly decrease in vigor and die off. In order to maintain a good stand of vegetation, places sparse with fescue will be overseeded with fescue at a rate of 15lbs per acre. Appropriate seeding dates are between September 1st and October 31st. Herbicides labeled for use on hay crops in current North Carolina Agricultural Chemicals Manual may be used, following product labels and restrictions, for control of weeds.

C. Nitrogen needs for crops grown:

R.Y.E.=Realistic Yield Expectations

N. App. Rate=Suggested N application rate based on R.Y.E. for soil type

Total N is the total nitrogen that can be applied per acre per year.

Fields #1 and #2

Crop (cut for hay)	R.Y.E.	N App Rate	lbsN/acre
Hybrid Bermuda/Crabgrass	4.0	40lbs. N/t	160
Winter Annual	1.25	50lbs. N/t	62
Total N=222lbs/acre			

D. Relative application rate for fields 1 & 2

Month	Fields #1 and #2
January	low
February	low
March	medium
April	high
May	medium
June	high
July	high
August	medium
September	medium
October	low
November	low
December	low

None=0 gallons Low=5,000 gallons
Medium=10,000 gallons High=15,000 gallons

***Note: During periods of saturated soil conditions resulting from heavy rains, septage will not be applied.

***Note: Cumulative application rate is not to exceed the permitted application rate.
Annual Application rate is not to exceed 50,000 gallons per acre.

E. Application Method

Lime stabilized septage will be surface applied using a septage truck equipped with a tank/vacuum pump to assure uniform coverage within the permitted application areas. The rate of application during each application event will be limited to prevent runoff and to prevent the material from totally covering the vegetation (the grass needs to continue growing after septage application.)

F. Fertility Considerations

The nitrogen requirement indicated in section c should be the sole basis for nitrogen application with the potassium and phosphorus should be applied to both fields at the rates recommended by the soil test report. Based on the assumption that the septage applied to this site contains 2.6 lbs PAN/1,000 gallons, applying septage at a rate of 50,000 gal/acre/year will supply 130 lbs of nitrogen. The following additional application of commercial nitrogen can be made to:

Fields 1&2 Hybrid Bermuda-crabgrass/Winter Annual. An additional 92 lbs of nitrogen, in a minimum of 3 split applications, is encouraged from June through September.

G. Harvest of Crops and Their Use

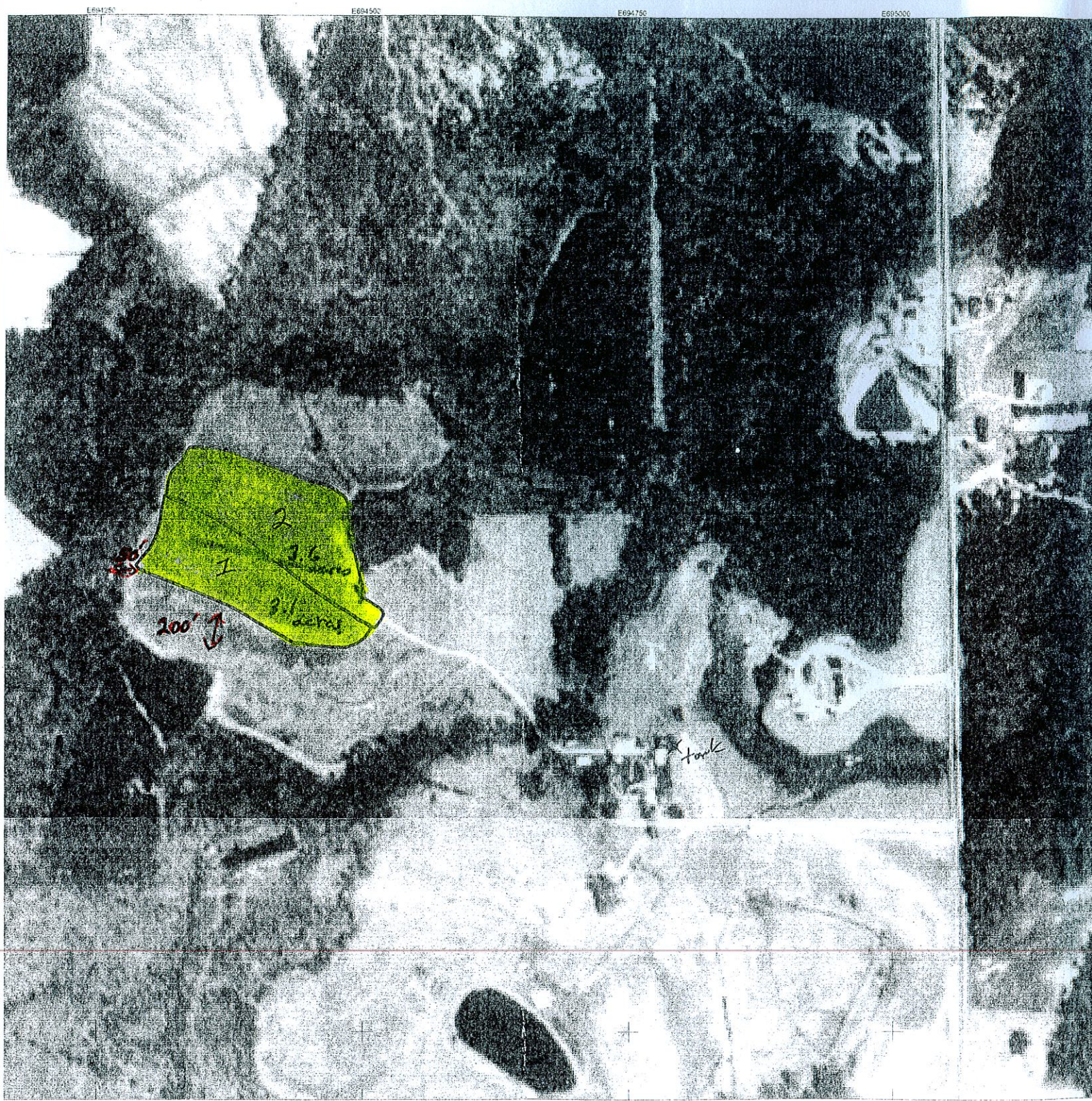
1. Coastal Bermuda-crabgrass/Winter annual will be cut at 12"-18" tall as hay and baled when it reaches maturity. Approximately 3 or 4 harvests can be expected in years with adequate rainfall.
2. Winter annual in fields 1 & 2 will be cut and baled in March and/or April.
3. A 30 day waiting period will be observed between the last application of septage and harvest period. A 30 day rotation schedule of septage applications between fields or management units will be maintained so that no harvest period will take place on a given unit before the end of the 30 days after septage application, in winter both sides will be used.
4. The bales of hay will be sold or used by the site operator.

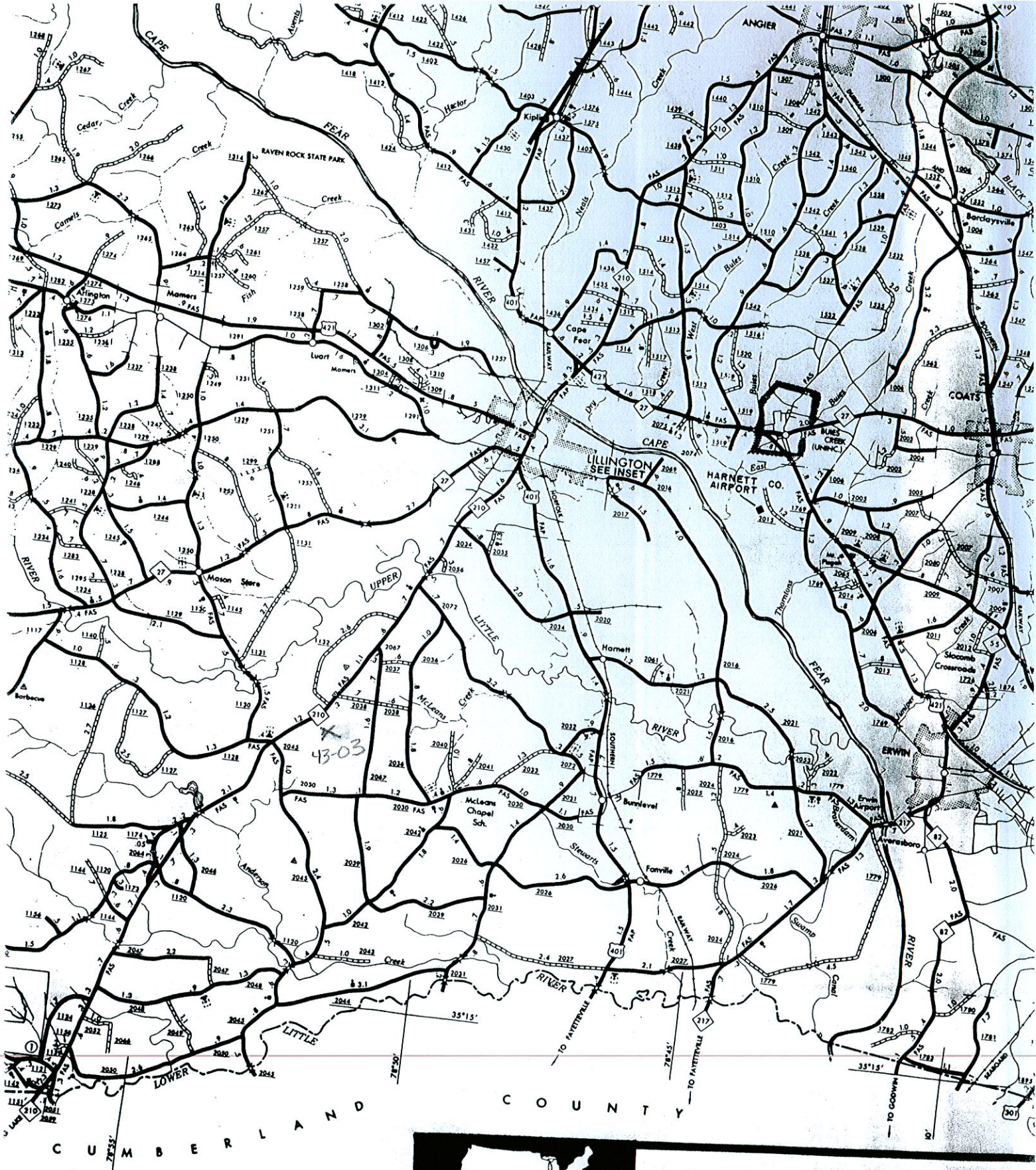
H. Soil Erosion and Runoff Control

The fields in the plan are classified as highly erodible. Since the site will be maintained in permanent vegetation there will be minimal erosion from the site. A 50 foot grass buffer or forest floor of leaves and straw cover or hay bales will be maintained so ground cover is maintained and to prevent the septage from migrating off the field. The 50 foot grass buffer will also be interseeded with winter peas to feed wildlife to help prevent them from entering areas of septage application. Also chicken litter may be applied on buffer area for fertilization of grass and peas.

Gerald R Temple
2-22-2012

35.31837° N latitude
-78.86139° W longitude





C. MERCHANT MAPS DIVISION, CINCINNATI, OHIO

PUBLISHER'S NOTE:

M
MAPS

The Merchant Map Street Guide and Index has been compiled from reliable federal, state, county and local governmental information. Additional data has been obtained from non-governmental sources. Our data has been edited to assure accuracy. We cannot guarantee complete authenticity. We would appreciate knowing of any corrections or additions. Please submit your letter in the next edition.

0427 Cincinnati, OH 45240-0427. Any errors or omissions brought to our attention will be corrected in the next edition.

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35.31837°N latitude
-78.86139°W longitude

E694000

E694250

E694500

E694750

E695000

